



1755

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February 13, 2003

Box NON-FEE AMENDMENT
Commissioner for Patents
Washington, DC 20231

RECEIVED
FEB 25 2003
TC 1700

RE: U.S. Application Serial No.: 09/854,857
Filing Date: May 14, 2001
Title: CEMENTING IN DEEP WATER OFFSHORE WELLS
Inventors: Lane E. Brothers et al
Atty Docket: HES 99.0350U1C1 (1391-40500)

Commissioner:

Enclosed are the following documents for filing:

1. Amendment and Response to Office Action (dated January 6, 2003) and
2. Acknowledgement postcard.

Please date-stamp the acknowledgment postcard and return it to the undersigned to confirm receipt of the above documents.

Thank you for your assistance in this matter.

Sincerely,

CONLEY ROSE, P.C.


Rodney B. Carroll

RBC/cj
Enclosures



Atty Docket HES 99.035U1C1
(1391-40500)

13/E
2/26/03
2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Lance E. Brothers et al
Serial No.: 09/854,857
Filed: May 14, 2001
For: CEMENTING IN DEEP WATER
OFFSHORE WELLS

§
§ Group Art Unit: 1755
§
§ Examiner: Paul D. Marcantoni
§
§ Confirmation No. 1002
§
§
§

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I hereby certify that this correspondence is being deposited
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Clara Jackson 2/13/2003
Signature (Date of Deposit)

AMENDMENT AND RESPONSE TO OFFICE ACTION

In response to the Office Action dated January 6, 2003, please amend the above-identified application as follows. The changes made are shown by underlining the added text and striking through the deleted text. A clean version reflecting the amendments is provided in Exhibit A. A complete set of the currently pending claims is provided as Exhibit B.

In the Claims:

21. (Thrice Amended) A foamed cement composition having a set pumping time and a quick set at temperatures as low as about 32°F comprising:

- a ~~calcium aluminate~~ cement comprised substantially of calcium aluminate;
- a lithium salt set accelerating additive;
- a retarder;
- water in an amount sufficient to form a foam; and



EXHIBIT A

Clean Version of Amendments

E1 21. A foamed cement composition having a set pumping time and a quick-set at temperatures as low as about 32°F comprising:
a cement comprised substantially of calcium aluminate;
a lithium salt set accelerating additive;
a retarder;
water in an amount sufficient to form a foam; and
a mixture of cement composition foam forming and foam stabilizing surfactants present in an amount sufficient to facilitate the formation of and stabilize said foam.

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E2 36. A foamed cement composition having a set pumping time and a quick set at temperatures as low as about 32°F comprising:

a cement comprised substantially of calcium aluminate having an alumina content of about 80% by weight of said cement;

a set accelerating additive selected from the group consisting of lithium chloride, lithium carbonate, lithium sulfate and lithium hydroxide present in said composition in an amount in the range of from about 0.2% to about 0.5% by weight of cement therein;

a retarder selected from the group consisting of citric acid, gluconic acid and tartaric acid present in said composition in an amount in the range of from about 0.5% to about 1.5% by weight of cement therein;

water selected from the group consisting of fresh water and salt water present in said composition in an amount in the range of from about 40% to about 50% by weight of cement therein;

nitrogen gas present in said composition in an amount sufficient to foam said cement composition to a density in the range of from about 10 to about 12 pounds per gallon; and

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a mixture of foam forming and foam stabilizing surfactants comprised of an alcohol ether sulfate ethoxylated with from about 3 to about 10 moles of ethylene oxide, an alkyl or alkene amidopropylbetaine and an alkyl or alkene amidopropyl dimethylamine oxide, said mixture being present in said composition in an amount in the range of from about 2% to about 3% by weight of water in said composition.